

Claims

I claim:

1. A self-adjusting mechanism for a thermostat for modifying a setting thereof as a result of humidity differences to adjust a temperature in a HVAC controlled space, said self-adjusting mechanism comprising
 - a) a first mounting plate attachable to a wall;
 - b) a second enhanced mounting plate to which a conventional mercury bulb thermostat is attached, said second mounting plate being mounted for limited rotation relative to said first mounting plate to adjust a relative rotational position of said second mounting plate;
 - c) means to sense a humidity in the HVAC controlled space and adjust said relative rotational position of said second mounting plate thereby adjusting a temperature setting of the thermostat by tilting the mercury bulb, lowering the temperature for more humid air and increasing the temperature for drier air.
2. The self-adjusting mechanism of Claim 1 wherein said means to sense and adjust comprises a spring.
3. The self-adjusting mechanism of Claim 2 wherein said spring comprises a composite coil spring which expands and contracts differentially responsive to changes in humidity.
4. The self-adjusting mechanism of Claim 3 further comprising a hub integrally formed with the mounting plate, said hub having said spring coiled thereabout.
5. The self-adjusting mechanism of Claim 4 wherein said hub has a slot which receives a first end of said spring.
6. The self-adjusting mechanism of Claim 5 further comprising a second enhanced

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mounting plate having a central collar which rotates on said hub, said enhanced mounting plate supporting a thermostat with a mercury bubble mounted thereon and having a second end of said spring attached thereto.

- 5 7. The self-adjusting mechanism of Claim 6 further comprising a level mounted on said enhanced mounting plate to facilitate proper installation of said self-adjusting mechanism.